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**JP63006461****BEAUTY ANALYZER**

NEC CORP SHISEIDO CO LTD

**Inventor(s):** ;KANEKAWA AKIHIRO ;YONEZAWA TETSUO ;KATO  
MOTONOBU ;KURIHARA TAKEKATSU ;SHIMADA SHIGERU**Application No.** 61151108 , **Filed** 19860626 , **Published** 19880112**Abstract:**

**PURPOSE:** To give customers an evaluation which is not affected by the subjectivity of a beauty adviser by displaying the sample of an examine while comparing it with reference images for comparative evaluation.

**CONSTITUTION:** A personal computer 1, a video disk player 3 which supplies reference images for evaluation and beauty advice information, a CCD camera 5 which converts the image of a microscope 4 into an electric signal, and a monitor television receiver 6 are connected to a video interface 8. The image of a skin replica, etc. , from the microscope 4 is displayed at part of a reference image on the monitor television 6 through the CCD5 and video interface 8. A beauty adviser compares the image of the skin replica of the customer with the reference image visually and diagnoses the degree of the roughness of the skin of the customer quantitatively. Consequently, even a different beauty adviser can use freely quantitative data at the stage of evaluation.

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**JP05196436**

**LATTICE PLATE FOR MEASURING THREE-DIMENSIONAL SHAPE,  
MANUFACTURING APPARATUS THEREFOR AND MEASURING APPARATUS OF  
THREE-DIMENSIONAL SHAPE**

**SHISEIDO CO LTD**

**Inventor(s): ;YOSHIZAWA TORU ;KOMATSUBARA RYOHEI ;KATASE  
KAZUNOBU ;KANEKO OSAMU**

**Application No. 04007796 , Filed 19920120 , Published 19930806**

### Abstract:

**PURPOSE:** To obtain a measuring apparatus for a three- dimensional shape which can measure the shape accurately, by a method wherein the transmittance of light in a first direction is made unvaried and the transmittance of light in a second direction intersecting the first direction is made to have a distribution wherein it is repeated while changing in conformity with a prescribed continuous function.

**CONSTITUTION:** A beam emitted from a semiconductor laser 10 is converged by a collimator lens 12 and turned into a slit-form light flux expanding only in a specified direction by a cylindrical lens 14. A photosensitive material is fixed on a motor- operated stage 18 and the laser light emitted from the semiconductor laser 10 is modulated in intensity by an instruction from a host computer 20 which is given through a D/A converter 22 and a laser diode drive circuit 24. Synchronously with this, the motor-operated stage 18 is driven through a motor drive circuit 26, a motor 28 and a linear actuator 30, a strip- shaped pattern is drawn on the photosensitive film and subjected to a development treatment and thereby a sine lattice having an intensity distribution of a sine function is obtained. By using this lattice, a precise three- dimensional shape is obtained even for an object having large indentation.

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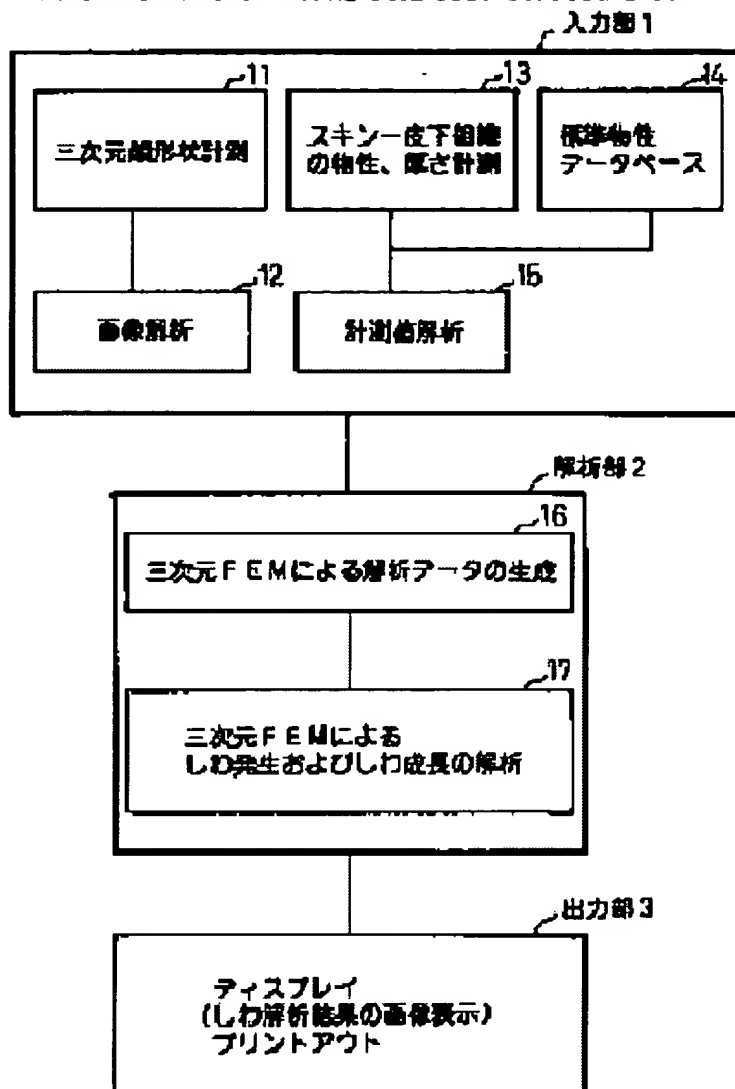
**Int'l Class:** G01B01124

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JP07100126

## FACIAL WRINKLES SIMULATION METHOD AND APPARATUS THEREFOR SHISEIDO CO LTD

Inventor(s): ;TSUTA NORIO ;KANEKO OSAMU ;TAKAHASHI MOTOHARU

Application No. 05247120 , Filed 19931001 , Published 19950418

### Abstract:

**PURPOSE:** To provide a method and an apparatus so as to simulate an actual person's facial wrinkles through non-destructive or unharmed way by analyzing the rear buckling phenomenon of finite

deformation problems in the incompressible ultra-elastic body of soft tissue system.

CONSTITUTION: Necessary data such as constitutional same level data are incorporated by an input unit 1. In order to do so, image data such as information of the change in particular facial expressions are collected by a three dimensional facial form measuring device 11. Also, basic data for the dimension of a forehead and dynamical material data are collected by a measuring device 13 for measuring material and thickness of subcutaneous tissue. On this occasion, information of the thickness of respective tissue can be gained non-destructively and unharmfully by the ultrasound measuring technology. Making use of this method, analyzed data is gained in an analysis section 2 by the formation function 16 for analyzed data, and a simulation of facial wrinkles is carried out by the analysis function 17 for formation and development of the wrinkles through a three dimensional FEM.

**Int'l Class:** A61B005107 G06F01900

**MicroPatent Reference Number:** 002497776

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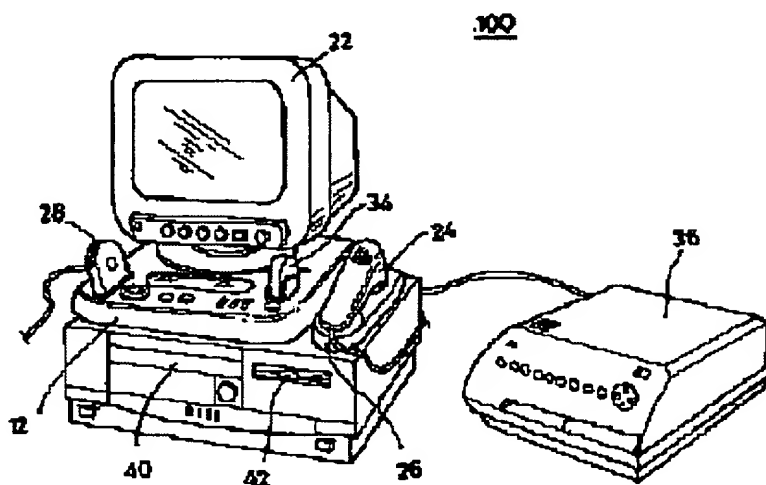
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☐ Include in patent order**MicroPatent® Worldwide PatSearch:** Record 1 of 1**Family Lookup****JP08299288****SKIN CONDITION MEASURING APPARATUS****KANEBO LTD KEY TRANDING CO LTD****Inventor(s): ;SAITO OSAMU ;ASAKA JUNKO ;MAEDA ISATO ;TAKEZAWA SHIN ;TERAI  
MASAO ;IZUMO HIDEJI****Application No. 07107360 , Filed 19950501 , Published 19961119****Abstract:****PURPOSE:** To provide a skin condition measuring apparatus capable of measuring a customer's skin

condition and facilitating advise for beauty making.

CONSTITUTION: This instrument has a color monitor 22, a skin magnifying camera 24, a skin temp. sensor, a moisture measuring sensor, an oily checker 34, a printer 36, an environmental temp. sensor, a CD-ROM device 40 and an FD device 42. A user is able to get meticulous advice for beauty making by using these devices.

**Int'l Class:** A61B00500 A61B00500 G01N03300

**MicroPatent Reference Number:** 001323901

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